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 TI Manufacture of **calcium silicate** thermal
insulating fire-resistant material
 IN Sun, Yongsheng; Sun, Xiangyun; Zhou, Jinan; Yu, Xiangxu
 PA Mingfa Thermal Insulation Material Co., Ltd., Laizhou, Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.
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 CC 57-6 (Ceramics)
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AB The material comprises xonotlite, **wollastonite**, and/or Si
 additive, and reinforcing fiber. Preferably, the xonotlite is
 synthesized
 from amorphous **silica** micro-powder (such as **silica**
 ash, rice husk ash, or white carbon black) contg. >88% SiO₂, 0-20% quartz
 powder, and Ca material (such as **lime**, **lime** hydrate,
 or Ca₂C slag) contg. >95% CaO; the material contains 0-40%
wollastonite and 0-20% Si additive; and the reinforcing fiber is
 ceramic fiber or cotton fiber. The material is manufd. by mixing
silica micro-powder and Ca material, heating at 80-100.degree. for
 1-3 h, adding **wollastonite** and 2-8% fiber, forming, allowing the
 material to react at 190-220.degree. for 12-24 h, cooling, and drying at
 100-140.degree..
 ST **calcium silicate** thermal **insulating** fire